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INDEX TO AMERICAN BOTANICAL LITERATURE

1916-1920

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Albrecht, W. A. Symbiotic nitrogen fixation as influenced by the nitrogen in the soil. *Soil Sci.* **9**: 275-319. *pl.* 1-4 + *f.* 1-3. My 1920.

Alway, F. J. Agricultural value and reclamation of Minnesota peat soils. *Minnesota Agric. Exp. Sta. Bull.* 188. 1-136. *f.* 1-54. Mr 1920.

Amargós, J. L. La mejor variedad de Tabaco del mundo. *Revista Agric.* **16**: 69-73. 30 Je 1920.

Andrews, H. Garden flowers from the Rocky Mountains. *Gard. Mag.* **31**: 308-310. Jl 1920. [Illust.]

Antevs, E. Die Jahresringe der Holzgewächse und die Bedeutung derselben als klimatischer Indikator. *Progr. Rei Bot.* **5**: 285-386. *f.* 1. 1917.

Artschwager, E. F. On the anatomy of *Chenopodium album* L. *Am. Jour. Bot.* **7**: 252-260. *pl.* 16, 17 + *f.* 1-3. 29 Jl 1920.

Bailey, I. W. The formation of the cell plate in the cambium of the higher plants. *Proc. Nat. Acad. Sci.* **6**: 197-200. Ap 1920. [Illust.]

Bailey, L. H. A collection of plants in China. *Gent. Herb.* **1**: 1-49. 31 Jl 1920.
20 new species in various families.

- Barnhart, J. H.** *Jeffersonia diphylla*. *Addisonia* **5**: 31-32. *pl.* 176. 30 Je 1920.
- Bean, W. J.** The silver berry (*Elaeagnus argentea*). *Gard. Chron.* **67**: 307. *f.* 143. 19 Je 1920.
- Berry, E. W.** The ancestors of the sequoias. *Nat. Hist.* **20**: 153-155. [Je] 1920. [Illust.]
- Berry, E. W.** Fossil plants from the late Cretaceous of Tennessee. *Proc. Nat. Acad. Sci.* **6**: 333, 334. 15 Je 1920.
- Berry, E. W.** The geological history of the sweet gum and witch hazel. *Plant World* **22**: 345-354. *f.* 1. 24 My 1920.
- Britton, E. G.** *Adlumia fungosa*. *Addisonia* **5**: 21, 22. *pl.* 171. 30 Je 1920.
- Britton, N. L.** A botanical expedition to Trinidad. *Jour. New York Bot. Gard.* **21**: 101-118. Je 1920.
- Britton, N. L., & Millspaugh, C. F.** The Bahama flora. i-viii + 1-695. New York. 26 Je 1920.
Includes contributions by J. H. Barnhart, C. S. Boyer, E. G. Britton, F. S. Collins, A. W. Evans, M. A. Howe, W. A. Murrill, L. W. Riddle and F. J. Seaver, here indexed separately.
- Brown, J. G.** Rot of date fruit. *Bot. Gaz.* **69**: 521-529. *f.* 1-5. 17 Je 1920.
Preliminary paper.
- Brown, W. H.** Philippine fiber plants. *Philippine Is. Bur. For. Bull.* **19**: 1-115. *pl.* 1-28. 1919.
- Brown, W. H., & Merrill, E. D.** Philippine palms and palm products. *Philippine Is. Bur. For. Bull.* **18**: 1-12. *pl.* 1-44. 1919.
- Bryan, G. S.** The fusion of ventral canal cell and egg in *Sphagnum subsecundum*. *Am. Jour. Bot.* **7**: 223-230. *pl.* 14, 15. 29 Jl 1920.
- Campos, F. O.** El cáncer del cacao. *Revista Agric.* **16**: 53-55. 31 My 1920.
- Carroll, F. B.** The development of the chasmogamous and the cleistogamous flowers of *Impatiens fulva*. *Contr. Bot. Lab. Univ. Pennsylvania* **4**: 144-184 *pl.* 55-57. 1920.
- Chodat, R.** La Végétation du Paraguay VIII. Apocynacées. IX. Urticiflores. X. Aroidées. *Bull. Soc. Bot. Genève* **11**: 211-299. *f.* 228-280. 15 Je 1920.
New species in *Macrosiphonia*, *Ficus*, *Sorocea*, *Philodendron*.
- Clark, A. W.** Seasonal variation in water content and in transpiration of leaves of *Fagus americana*, *Hamamelis virginiana*, and *Quercus alba*. *Contr. Bot. Lab. Univ. Pennsylvania* **4**: 105-103. *f.* 1-33. 1920.

- Clarkson, E. H.** Another character in the beech ferns. *Am. Fern. Jour.* **10**: 60. 29 Je 1920.
- Clute, W. N.** Plants that seldom fruit. *Gard. Chron. Amer.* **24**: 243. Jl 1920.
- Coker, W. C.** Notes on the lower Basidiomycetes of North Carolina. *Jour. Elisha Mitchell Sci. Soc.* **35**: 113-182. *pl.* 23, 30-66. Je 1920.
- Collins, G. N.** Waxy maize from Upper Burma. *Science II.* **52**: 48-51. 16 Jl 1920.
- Deane, W., & Fernald, M. L.** A new albino raspberry. *Rhodora* **22**: 112. 24 Jl 1920.
Rubus idaeus var. *candansis* f. *Warei* n. f.
- Douglass, A. E.** Evidence of climatic effects in the annual rings of trees. *Ecology* **1**: 24-32. *f.* 1-10. 1920.
- Dupler, A. W.** Ovuliferous structures of *Taxus canadensis*. *Bot. Gaz.* **69**: 492-520. *pl.* 23 + *f.* 1-60. 17 Je 1920.
- Engler, A., & Krause, K.** Araceae-Colocasioideae. *Pflanzenreich* **4**²³: 1-139. *f.* 1-29. 14 My 1920.
New American species in *Caladium*, *Xanthosma*, *Syngonium*.
- Fairchild, D.** Foreign plant introduction medal. *Jour. Hered.* **11**: 169-173. *f.* 16. 6 Je 1920.
- Fawcett, W., & Rendle, A. B.** Flora of Jamaica **4**: i-xv + 1-369. *f.* 1-114. London. 1920.
- Fernald, M. L.** A new *Digitaria* from New Hampshire. *Rhodora* **22**: 101-104. 24 Jl 1920.
Digitaria laevigulmis sp. nov. and 11 new combinations.
- Fisher, D. F.** Control of apple powdery mildew. U. S. Dept. Agr. Farmers Bull. 1120. 1-9. *f.* 1-8. My 1920.
- Fischer, J.** Zur Entwicklungsgeschichte und Morphologie der *Veronica*-blüte. *Zeitschr. Bot.* **12**: 113-161. *pl.* 2 + *f.* 1-26. 1920.
- Fitzpatrick, T. J.** The fern flora of Nebraska-II. *Amer. Fern. Jour.* **10**: 33-44. 29 Je 1920.
- Gaskill, A.** Report of the State Forester. Rep. Dept. Conserv. & Devel. New Jersey 1919: 55-63. *f.* 11-13. 1919.
Includes a forest map of New Jersey.
- Gleason, H. A.** *Dracocephalum speciosum*. *Addisonia* **5**: 27, 28. *pl.* 174. 39 Je 1920.
- Goebel, K.** Zu Jacques Loeb's Untersuchungen über Regeneration bei *Bryophyllum*. *Biol. Centralbl.* **36**: 193-204. 20 My 1916.
- Gowen, J. W.** Self sterility and cross sterility in the apple. Maine Agr. Exp. Sta. Bull. 287: 61-88. My 1920.

- Greeley, A. W.** Night-growth of roses. *Am. Rose Annual* 1920: 40-42. 1920.
- Haas, A. R. C.** Studies on the reaction of plant juices. *Soil Sci.* 9: 341-368. *pl. 1 + f. 1-11.* My 1920.
- Hampton, H. C., & Baas-Becking, L. G. M.** The kinetics of the action of catalase extract from marine algae, with a note on oxidase. *Jour. Gen. Physiol.* 2: 635-649. 20 Jl 1920.
- Harms, H.** Zwei neue *Acacia*-arten (*A. Fiebrigii* und *A. Weberbaueri*) aus Südamerika. *Rep. Sp. Nov. Regn. Veg.* 16: 351-352. 30 Ap 1920.
- Harms, H.** Zwei neue *Pithecolobium*-arten aus Amerika. *Rep. Sp. Nov. Regn. Veg.* 16: 350. 30 Ap 1920.
P. Seleri from Mexico and *P. Weberbaueri* from Peru.
- Henderson, M. W.** A comparative study of the structure and saprophytism of the Pyrolaceae and Monotropaceae with reference to their derivation from the Ericaceae. *Contr. Bot. Lab. Univ. Pennsylvania* 5: 42-109. 1920.
- Hepburn, J. S.** Biochemical studies of insectivorous plants I. The work of previous investigators on *Nepenthes*. II. A study of the protease of the pitcher liquor of *Nepenthes*. *Contr. Bot. Lab. Univ. Pennsylvania* 4: 419-442, 442-451. 1920.
- Hepburn, J. S., & Jones, F. M.** Biochemical studies of insectivorous plants IV. Occurrence of antiproteases in the larvae of the *Sarcophaga* associates of *Sarracenia flava*. *Contr. Bot. Lab. Univ. Pennsylvania* 4: 460-463. 1920.
- Hepburn, J. S., & St. John, E. Q.** Biochemical studies of insectivorous plants III. A bacteriological study of the pitcher liquor of *Nepenthes*. *Contr. Bot. Lab. Univ. Pennsylvania* 4: 451-459. 1920.
- Hofmann, J. V.** The establishment of a Douglas Fir forest. *Ecology* 1: 49-53. *f. 1.* 1920.
- Hungerford, C. W.** Rust in seed wheat and its relation to seedling infection. *Jour. Agr. Research* 19: 257-277. *pl. 38-48.* 15 Je 1920.
- Jennings, O. E.** The paper mulberry (*Broussonetia*) an "Artillery Plant." *Torreya* 20: 52, 53. 18 Jl 1920.
- Kahn, M. C.** Microscopic water contaminators. *Sci. Am. Monthly* 2: 28-32. Jl 1920. [Illust.]
- Keeler, H. L.** Our northern autumn. i-xviii + 1-194. New York. 1920. [Illust.]
- Lenoir, M.** Evolution du tissu vasculaire chez quelques plantules de Dicotyledones. *Ann. Sci. Nat. X.* 2: 1-123. *f. 1-91.* Je 1920.

- Lloyd, C. G.** Mycological notes 60: 862-876. *f. 1463-1496*. Au 1919.
[With photograph of Charles E. Fairman.]
- Lloyd, F. E.** Environmental changes and their effect upon boll-shedding in cotton (*Gossypium herbaceum*). Ann. New York Acad. Sci. **29**: 1-131. *f. 1-26*. 1920.
- Long, B.** Regarding *Gentiana Andrewsii* in the Coastal Plain of New Jersey. Rhodora **22**: 104-110. 24 Jl 1920.
- Long, C. A. E.** Some noteworthy Martinicus plants. Rhodora **22**: 110-111. 24 Jl 1920.
- Mameli, E., & Cattaneo, E.** Sul geotropismo negativo spontaneo di radici di "*Helianthus annuus*" e di alcune altre piante. Atti Ist. Bot. Univ. Pavia **17**: 9-20. 1920.
- Maublanc, M. A.** Contribution à l'étude de la flore mycologique brésilienne. Bull. Soc. Myc. France **36**: 33-43. *pl. 2-4*. 31 Mr 1920.
Includes 14 new species.
- Meyer, F. J.** Bau und Ontogenie der Wasserleitungsbahnen und der an diese angeschlossenen Siebteile in den vegetativen Achsen der Pteridophyten, Gymnospermen und Angiospermen. Progr. Rei Bot. **5**: 521-588. 1917.
- Namyslowski, B.** État actuel des recherches sur les phénomènes de la sexualité des Mucorinées. Revue Gén. Bot. **32**: 193-215. *f. 1-9*. 15 My 1920.
- Nash, G. V.** *Aphelandra nitens*. Addisonia **5**: 23, 24. *pl. 172*. 30 Je 1920.
- Nash, G. V.** *Corylopsis spicata*. Addisonia **5**: 19, 20. *pl. 170*. 30 Je 1920.
- Nelson, J. C.** Additions to the flora of western Oregon during 1919. Torreyia **20**: 37-45. 18 Jl 1920.
- Norton, G. P.** Shore vegetation of Flathead Lake, Montana. Plant World **22**: 355-362. *f. 1, 2*. 24 My 1920.
- Pennypacker, J. Y.** Observations on the beach plum. A study in plant variation. Contr. Bot. Lab. Univ. Pennsylvania **4**: 231-270. *pl. 66-70*. 1920.
Proposes 9 new varieties.
- Pool, R. J.** Pin oak in Nebraska. Torreyia **20**: 50-52. 18 Jl 1920.
- Reinking, O. A.** Higher Basidiomycetes from the Philippines and their hosts-II. Phil. Jour. Sci. **16**: 167-179. F 1920.

- Russell, A. M.** A comparative study of *Floerkea proserpinacoides* and allies. Contr. Bot. Lab. Univ. Pennsylvania 4: 401-418. pl. 91, 92. 1920.
- Russell, A. M.** The macroscopic and microscopic structure of some hybrid sarracenias compared with that of their parents. Contr. Bot. Lab. Univ. Pennsylvania 5: 3-41. pl. 1-5. 1920.
- St. John, H., & White, D.** The genus *Galinsoga* in North America. Rhodora 22: 97-101. 24 Jl 1920.
2 new species, *G. purpurea* from Bolivia and *G. bicolorata* from Mexico.
- Sanzin, R.** Las verbenaceas. Contribucion a la flora de Mendoza. An. Soc. Cien. Argentina 88: 95-134. f. 1-35. 1919.
- Schiffner, V.** Die systematisch-phylogenetische Forschung in der Hepaticologie seit dem Erscheinen der Synopsis Hepaticarum und über die Abstammung der Bryophyten und Pteridophyten. Progr. Rei Bot. 5: 387-520. 1917.
- Schlechter, R.** Die Gattung *Fernandezia* Ruiz et Pav. Rep. Sp. Nov. Regn. Veg. 16: 345-349. 30 Ap 1920.
- Schmitz, H.** Enzyme action in *Echinodontium tinctorium* Ellis and Everhart. Jour. Gen. Physiol. 2: 613-616. 20 Je 1920.
- Schultz, E. S., & Folsom, D.** Transmission of the mosaic disease of Irish potatoes. Jour. Agr. Res. 29: 315-337. pl. 49-56. 1 Jl 1920.
- Shamel, A. D.** Origin of a grape-fruit variety having pink-colored fruits. Jour. Hered. 11: 157, 158. f. 5-8. 6 Je 1920.
- Sifton, H. B.** Longevity of the seeds of cereals, clovers, and timothy. Am. Jour. Bot. 7: 243-251. f. 1-5. 29 Jl 1920.
- Small, J. K.** Cape Sable region of Florida. 1-27. pl. 1-6. 1919.
- Small, J. K.** *Hydrangea quercifolia*. Addisonia 5: 29, 30. pl. 175. 30 Je 1920.
- Small, J. K.** The land of ferns. Jour. Elisha Mitchell Sci. Soc. 35: 92-104. pl. 24-28. Je 1920.
- Snyder, F. D.** The *Yucca* plant and its insect ally. Gard. Mag. 31: 326, 327. Jl 1920. [Illust.]
- Steckbeck, D. W.** The comparative histology and irritability of sensitive plants. Contr. Bot. Lab. Univ. Pennsylvania 4: 185-230. pl. 58-65. 1920.
- Sterrett, W. D.** Jack pine. U. S. Dept. Agr. Bull. 820. 1-47. pl. 1-16 + f. 1-4. 22 My 1920.
- Stevens, O. A.** The geographical distribution of North Dakota plants. Am. Jour. Bot. 7: 231-242. f. 1. 29 Jl 1920.